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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/646,862	08/25/2003	Yasushi Uraki	826.1890	1801
21171	7590	09/08/2006	EXAMINER	
STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005				PHAN, THAI Q
			ART UNIT	PAPER NUMBER
			2128	

DATE MAILED: 09/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/646,862	URAKI, YASUSHI
Examiner	Art Unit	
Thai Phan	2128	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

Disposition of Claims

4) Claim(s) 1-12 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-12 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 28 January 2004 is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date. ____ .
3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 08/2003. 5) Notice of Informal Patent Application
6) Other: ____ .

DETAILED ACTION

This Office Action is in response to patent application S/N: 10/646,862, filed on 08/25/2003. Claims 1-12 are pending in the action.

Drawings

The drawings filed on 08/25/2003 and 01/2004 are acceptable for examination.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 08/25/2003 was being considered.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Akutagawa et al, US patent no. 6,807,654.

The applied reference has a common assignee with the instant application.

Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art

under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

As per claims 1 and 3, Akutagawa anticipates a method and system for analytically checking an analytic model conversion in an analysis process with feature limitations very identical to the claimed invention. According to Akutagawa, the method includes steps and means

Means or a calculation unit for obtaining a difference between the analytic model and the three dimensional model (Fig. 8, col. 4, line 65 to col. 5, line 7, col. 6, lines 1-9, for example),

A pattern check unit for checking design conversion such as matching pattern, aligning patterns for pattern design and analysis process.

As per claim 2, Akutagawa anticipates 3-D object including volume area, forming regions on a surface area of the object, barycenter shifting or changes, etc.

As per claims 4 and 5, Akutagawa anticipates the changes or differences in patterns and displaying the pattern changes in a coordinates system (Fig. 4, col. 5, lines 38-49, col. 6, lines 25-35).

As per claims 6-12, Akutagawa anticipates the claimed limitations such as display of forming regions and analytic model imposed on the regions, grid pattern, rectangle elements (Figs. 2, 3, 8, col. 6, lines 10-35, lines 50-55, col. 7, lines 1-14).

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 3-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Desbrun et al, US patent application publication no. US 2003/0011589 A1.

As per claims 3 and 12, Desbrun anticipates a method and system for generating and checking a model object with feature limitations very identical to the claimed invention. According to Desbrun, the method includes steps

Obtaining a difference between the analytic model and the three dimensional model ([0031] [0033], [0050], [0056]),

And displaying the difference ([0055], [0056]).

As per claim 4, Desbrun anticipates a numerical display such as vertices, shape, mesh coordinates for the generated mesh as claimed

As per claims 5-11, Desbrun anticipates the claimed limitations such as grid patterns, visually displayed numericals, surface area, overlapping regions ([0052]) for barycenter determination, etc.

Conclusion

1. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 1. US patent no. 5,819,070, issued to Sasaki, Toyoshige, on Oct. 1998
 2. US patent no. 5,844,564, issued to Bennis et al, on Dec. 1998
 3. US patent no. 6,069,971, issued to Kanno et al, on May 2000
 4. US patent no. 6,642,929, issued to Essafi et al, on Nov. 2003
 5. US patent no. 6,943,790, issued to Taubin, Gabriel, on Sept. 2005
 6. US patent application publication no. 2005/0280656, to Maillot, Jerome, on Dec. 2005
2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai Phan whose telephone number is 571-272-3783. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamini Shah can be reached on 571-272-2279. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

3. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Sept.01, 2006


Thai Phan
Patent Examiner